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1 [Formal Models for Computer Security](#)



Carl E. Landwehr

September 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 3

Publisher: ACM Press

Full text available: pdf(2.98 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [A taxonomy for secure object-oriented databases](#)



Martin S. Olivier, Sebastiaan H. von Solms

March 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 1

Publisher: ACM Press

Full text available: pdf(3.05 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper proposes a taxonomy for secure object-oriented databases in order to clarify the issues in modeling and implementing such databases. It also indicates some implications of the various choices one may make when designing such a database. Most secure database models have been designed for relational databases. The object-oriented database model is more complex than the relational model. For these reasons, models for secure object-oriented databases are more complex than ...

Keywords: formal security models, information security, multilevel secure databases, object-orientation

3 [Invited papers on the frontiers of software practice: Cybersecurity](#)

Richard A. Kemmerer

May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available: pdf(1.17 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

[Publisher Site](#)

As more business activities are being automated and an increasing number of computers are being used to store sensitive information, the need for secure computer systems becomes more apparent. This need is even more apparent as systems and applications are being distributed and accessed via an insecure network, such as the Internet. The Internet itself

has become critical for governments, companies, financial institutions, and millions of everyday users. Networks of computers support a multitude ...

4 Role-based access control on the web



Joon S. Park, Ravi Sandhu, Gail-Joon Ahn

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: [pdf\(331.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

Keywords: WWW security, cookies, digital certificates, role-based access control

5 Cryptographic security Techniques for wireless networks



Danai Patiyoot, S. J. Shepherd

April 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.12 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper deals with security techniques for wireless Networks. The work presented is based on a review of literature regarding current and future wireless security networks systems. The aspects discussed in this paper included the choices of cryptographic algorithms such as protocols for key management and authentication. Various conclusions are drawn from existing security networks and proposed in new wireless ATM network security. Also a proposal for future research into security techniques ...

Keywords: cryptographic, security, wireless

6 Management guidelines for PC security



Troy E. Anderson

March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**

Publisher: ACM Press

Full text available: [pdf\(643.89 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Incremental cryptography and application to virus protection



Mihir Bellare, Oded Goldreich, Shafi Goldwasser

May 1995 **Proceedings of the twenty-seventh annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: [pdf\(1.65 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Security and usability: the case of the user authentication methods

Christina Braz, Jean-Marc Robert



April 2006 **Proceedings of the 18th international conference on Association
Francophone d'Interaction Homme-Machine IHM '06**

Publisher: ACM Press

Full text available: [pdf\(292.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The usability of security systems has become a major issue in research on the efficiency and user acceptance of security systems. The authentication process is essential for controlling the access to various resources and facilities. The design of usable yet secure user authentication methods raises crucial questions concerning how to solve conflicts between security and usability goals.

Keywords: access control, human factors, security usability, user authentication, user interface design

9 Verifying Security



Maureen Harris Cheheyli, Morrie Gasser, George A. Huff, Jonathan K. Millen

September 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 3

Publisher: ACM Press

Full text available: [pdf\(4.68 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Satchel: providing access to any document, any time, anywhere



Mik Lamming, Marge Eldridge, Mike Flynn, Chris Jones, David Pendlebury

September 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available: [pdf\(591.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current solutions for providing access to electronic documents while away from the office do not meet the special needs of mobile document workers. We describe "Satchel," a system that is designed specifically to support the distinctive features of mobile document work. Satchel is designed to meet the following five high-level design goals (1) easy access to document services; (2) timely document access; (3) streamlined user interface; (4) ubiquity; and (5) compliance with security ...

Keywords: document access, document appliance, document processing, information appliance, mobile computing, mobile work

11 Integrating security in a large distributed system



M. Satyanarayanan

August 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available: [pdf\(2.90 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Andrew is a distributed computing environment that is a synthesis of the personal computing and timesharing paradigms. When mature, it is expected to encompass over 5,000 workstations spanning the Carnegie Mellon University campus. This paper examines the security issues that arise in such an environment and describes the mechanisms that have been developed to address them. These mechanisms include the logical and physical separation of servers and clients, support for secure communication ...

12 Software Engineering for Secure Systems (SESS) --- Building Trustworthy Applications:
Using dynamic information flow analysis to detect attacks against applications



Wes Masri, Andy Podgurski

May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2005 workshop on Software engineering for secure systems—building trustworthy applications SESS '05**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: [pdf\(243.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a new approach to using dynamic information flow analysis to detect attacks against application software. The approach can be used to reveal and, under some conditions, to prevent attacks that violate a specified information flow policy or exhibit a known information flow signature. When used in conjunction with automatic cluster analysis, the approach can also reveal novel attacks that exhibit unusual patterns of information flows. A set of prototype tools implementing the a ...

Keywords: Computer security, dynamic information flow analysis, intrusion detection, observation-based testing, program dependences

13 An introduction to multilevel secure relational database management systems

Walid Rjaibi

October 2004 **Proceedings of the 2004 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(126.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Multilevel Security (MLS) is a capability that allows information with different classifications to be available in an information system, with users having different security clearances and authorizations, while preventing users from accessing information for which they are not cleared or authorized. It is a security policy that has grown out of research and development efforts funded mostly by the U.S. Department of Defense (DoD) to address some of the drawbacks of the single level mode of ...

14 A security model for military message systems



Carl E. Landwehr, Constance L. Heitmeyer, John McLean

August 1984 **ACM Transactions on Computer Systems (TOCS)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.76 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: confinement, message systems, storage channels

15 Mandatory security in object-oriented database systems



M. B. Thuraisingham

September 1989 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '89**, Volume 24 Issue 10

Publisher: ACM Press

Full text available: [pdf\(920.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A multilevel secure object-oriented data model (using the ORION data model) is proposed for which mandatory security issues in the context of a database system is discussed. In particular the following issues are dealt with: (1) the security policy for the system, (2) handling polyinstantiation, and (3) handling the inference problem. A set of security properties that has been established in this paper is more complete than those that have been proposed previously. Finally we des ...

16 Formal query languages for secure relational databases

 Marianne Winslett, Kenneth Smith, Xiaolei Qian
December 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(2.43 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The addition of stringent security specifications to the list of requirements for an application poses many new problems in DBMS design and implementation, as well as database design, use, and maintenance. Tight security requirements, such as those that result in silent masking of withholding of true information from a user or the introduction of false information into query answers, also raise fundamental questions about the meaning of the database and the semantics of accompanying query la ...

Keywords: formal security models, information security, multilevel secure databases

17 Reworking the RPC paradigm for mobile clients

Ajay V. Bakre, B. R. Badrinath
December 1996 **Mobile Networks and Applications**, Volume 1 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(326.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Remote Procedure Call (RPC) is a popular paradigm for designing distributed applications. The existing RPC implementations, however, do not allow special treatment of mobile hosts and wireless links; which can be a cause of degraded performance and service disruptions in the presence of disconnections, moves and wireless errors. In addition, future information oriented and location aware mobile applications will also need the ability to dynamically bind mobile clients to local information se ...

18 A nested transaction model for multilevel secure database management systems

 Elisa Bertino, Barbara Catania, Elena Ferrari
November 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 4


Publisher: ACM Press

Full text available:  [pdf\(560.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article presents an approach to concurrency control for transactions in a Multilevel Secure Database Management System (MLS/DBMS). The major problem is that concurrency control mechanisms used in traditional DBMSs are not adequate in a MLS/DBMS, since they may be exploited to establish covert channels. The approach presented in this article, which uses single-version data items, is based on the use of nested transactions, application-level recovery, and notification-based locking protocols. ...

Keywords: Nested transactions, concurrency control, covert channels, multilevel secure database management systems

19 A taxonomy of computer program security flaws

 Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi
September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

Publisher: ACM Press


Full text available:  [pdf\(3.81 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An organized record of actual flaws can be useful to computer system designers, programmers, analysts, administrators, and users. This survey provides a taxonomy for computer program security flaws, with an Appendix that documents 50 actual security flaws.

These flaws have all been described previously in the open literature, but in widely separated places. For those new to the field of computer security, they provide a good introduction to the characteristics of security flaws and how they ...

Keywords: error/defect classification, security flaw, taxonomy

20 Labels and event processes in the asbestos operating system

 Petros Efstathopoulos, Maxwell Krohn, Steve VanDeBogart, Cliff Frey, David Ziegler, Eddie Kohler, David Mazières, Frans Kaashoek, Robert Morris

October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5

Publisher: ACM Press

Full text available:  pdf(258.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Asbestos, a new prototype operating system, provides novel labeling and isolation mechanisms that help contain the effects of exploitable software flaws. Applications can express a wide range of policies with Asbestos's kernel-enforced label mechanism, including controls on inter-process communication and system-wide information flow. A new event process abstraction provides lightweight, isolated contexts within a single process, allowing the same process to act on behalf of multiple users while ...

Keywords: event processes, information flow, labels, mandatory access control, secure web servers

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